



Product No.: 042561 Hydrazine Standard

Certified Concentration of N_2H_4 : 100.0 ± 0.5 mg/L Lot No.: 1521719

Matrix: 1% Acetic Acid Date of Expiration:

Earlier of 15 June 2026 or 12 Months from Date opened

Intended Use: This solution is intended for use as a Certified Reference Material (CRM) or calibration standard for ion chromatography (IC), or other techniques for aqueous ion detection.

Certification & Traceability: Thermo Fisher Scientific is ISO 9001:2015 certified. This CRM was manufactured and certified by a Thermo Fisher Scientific supplier under an ISO 9001 and ISO/IEC 17025 quality management system. This CRM was prepared to a nominal concentration of 100 mg/L by gravimetric methods using 98% high purity hydrazine dihydrochloride (N₂H₄·₂HCl) dissolved and diluted with filtered (0.22µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. The uncertainty associated with the certified concentration is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution and transpiration through the container wall. Secondary verification of the certified concentration was done using an instrumental or classical wet chemistry technique and has traceability to a NIST Standard Reference Material (SRM) or a suitable alternative Reference Material when an SRM is unavailable.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) use a minimum sub-sample size of $500\mu L$, (4) make dilutions using calibrated balances or certified volumetric class A flasks and pipettes, (5) dilute with the same matrix as the original CRM, and (6) never pour used product back into the original container. The solution shall be kept tightly capped and must be stored refrigerated between 2°C to 8°C. Exposure to elevated temperatures will severally impact the stability of the certified reference material. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight.

Period of Validity: Thermo Fisher Scientific guarantees the accuracy of this Specpure® solution until the expiry date shown above, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

| 16 May 2024 | |
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| Certification Date | Date Opened |